DEPARTMENT OF THE NAVY

COMMANCEP

NAVAL OCEANOGRAPHY COMMAND

NSTL MS 39529-5000

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0 3 DEC 1986

From: Commander, Naval Oceanography Command

Chief of Naval Operations (OP-006) To:

Subj: SUBMISSION FOR FEDERAL PLAN FOR METEOROLOGICAL SERVICES

AND SUPPORTING RESEARCH, FISCAL YEAR 1988

Ref: CNO ltr Ser 006D/6U449063 of 22 Oct 86 (a)

Encl: (1)U.S. Navy Budgetary Data for FY 1988 Federal Plan (Resource and Program Narratives and Tables 1 through 3, 5 and 6)

- 1. Reference (a) requested that we complete the appropriate (operational) sections of the tables and related resource and program narratives.
- 2. Enclosure (1) is provided in accordance with the Planning Guidance provided by reference (a). Table 4 is negative because it pertains to research programs rather than "operational".

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RESOURCE NARRATIVE FOR FY88 FEDERAL PLAN FOR MET SERVICES AND SUPPORTING RESEARCH:

a. Observations:

Most funding under this functional category is applied toward the Navy share for procurement of a microwave imager for the Defense Meteorological Satellite Program (DMSP), a joint USN/USAF project. This special sensor is tailored for operation aboard a new DMSP spacecraft which will fulfill Navy data requirements for surface wind speed, precipitation intensity and identification of Arctic environmental parameters of tactical Approximately \$10M of FY87 dollars targeted toward interest. this sensor were deleted, resulting in the large (\$19.9M) requirement in FY88. Additional items increased under this category include an upgraded tactical user's terminal to replace aging and unsupportable equipment used with DMSP data, and the procurement of two additional lightning detection and tracking systems (LDATS) to upgrade our capability to observe and track lightning at shore facilities. Category decreases are a reduced number of planned upper air soundings by meteorological rockets and a slight decrease in planned contractor engineering support.

b. Analysis and Forecasts:

The Satellite Processing Center Upgrade (SPCU) at Fleet Numerical Oceanography Center (FLENUMOCEANCEN) will upgrade our ability to assimilate and analyze the vast amounts of oceanographic data which will be available with the launch of the Navy Remote Ocean Sensing System (NROSS) - new equipment and software will be required to support this major program. Additionally, COMNAVOCEANCOM plans to procure upgrades for the Primary Environmental Processing System Upgrade and Expansion (PEPSUE) Information Systems (ISs) at FLENUMOCEANCEN to provide improved and timelier support to operational fleet units. capability is also included for the Joint Typhoon Warning Center (JTWC) at Naval Oceanography Command Center, Guam to automate the procedures for predicting the formation and forecasted track of tropical cyclones in the Pacific and Indian Oceans - this system will be called the Typhoon Information Processing System (TIPS). By FY88, the Tactical Environmental Support System (TESS), a system which provides afloat oceanographers ready access to environmental data upon which to base tactical forecasts, will be installed at approximately 60 sites. Funding for TESS in FY87 had included installation and training costs, equipment upgrades and interface costs not reflected in FY88. Upgraded data processing capabilities for the NEDN Oceanographic Data

Distribution System/Satellite Processing and Display System (NODDES/SPADS) are also included in this category as are funds for contractor support of climatological studies.

c. Communications:

The Consolidated Communication System (CCS) Replacement at FLENUMOCEANCEN will upgrade obsolete, logistically unsupportable data communications hardware used to transmit environmental data and tailored tactical products to shore activities. CCS interfaces to several networks and ties FLENUMOCEANCEN to data sources worldwide, including USAF and NOAA. Satellite display devices/receivers are part of the Aviation Support Display System (ASDS) which will be installed at CONUS oceanography detachments and serve as stand-alone interfaces to provide a downlink capability for GOES-TAP satellite data and also distribute data to customers such as aviation squadrons, thereby greatly improving the dissemination ability within NAVOCEANCOM.

d. Dissemination to Users:

The principal item under this category is an upgrade to the capability to provide satellite imagery and data to both ashore and afloat units. Six AN/SMQ-11 sets will be purchased in addition to those previously planned. Other category items include funding the ASDS system mentioned in the previous category to interface with external circuits and sources of environmental data, and meteorological and oceanographic sensors and equipment to replace antiquated and unsupportable versions in use within NAVOCEANCOM.

e. General Agency Support:

Items listed under this category involve upgrading existing meteorological equipment - overhauls, rework and reinstallation, and providing training to Navy personnel concerning the observing and tactical useage of data. End strength increases in officer personnel are reflected as is an anticipated military pay raise in FY88. Military construction increases are to provide space for additional environmental equipment - observational and communications - expected in the next few years.

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PEDERAL PLAN FOR METEOROLOGICAL SERVICES AND SUPPORTING RESEARCH

TABLE 1. PROGRAM CHANGES, FY 87 NOV 1986 NAVY XX Operational Supporting Research AGENCY TYPE/TITLE OF CHANGE SERVICE AND FUNCTION IEW OR ONGOING LINE COSTS (\$K) REQUIREMENT DESCRIPTION OF CHANGE item/program elem. 1. General Realign FY 1987 costs to A net decrease of -\$20.799 applies PE 35111 reflect updated cost. to the revised program in the following areas: a. A decrease of ten officers and eighteen enlisted with an increase of seven civilians involved in meteorological support. -563K b. Decrease in funds for procurement of Microwave Imagers for DMSP. -9.904K c. Decrease in MILCON POO4 at Fleet Numerical Oceanographer Center. -3,000K d. Decrease cost associated with MET rockets. -145K -195K e. Decrease in the Mini-Sondes System. f. Decrease in Positions and Tracking Systems and associated production engineering. -61K g. Decrease in cost associated with ١. Satellite Processing Center (SPC) -238K Upgrade. h. Decrease to Primary Environmental Processing System (PEPS). -3,606K

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TABLE 1. PROGRAM CHANGES, FY 87

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Date: NOV 1986

XX Operational Supporting Research AGENCY NAVY TYPE/TITLE OF CHANGE SERVICE AND FUNCTION NEW OR ONGOING LINE REQUIREMENT DESCRIPTION OF CHANGE COSTS (\$K) ITEM/PROGRAM ELEM. 1. General (Cont!d) i. Decrease to O&M,N Tactical Environ-PE 35111 mental Support System (TESS). -2.075Kj. Operation and Maintenance cost of automated data processing equipment and system software required for meteorology analysis, forecast and dissemination. -200K k. SROE and MET associated equipment overhauls and leases. -448K 1. Decrease in NODDES/SPADS and NEDS -529K procurement. m. Increase in Navy agency leased communications costs. +165K

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PEDERAL PLAN FOR METEOROLOGICAL SERVICES AND SUPPORTING RESEARCH

TABLE 1. PROGRAM CHANGES, FY 88

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Date: NOV 1986

	XX Operational	Supporting Research	AGENCY NAVY		
YPE/TITLE OF CHANGE ERVICE AND FUNCTION EW OR ONGOING LINE TEM/PROGRAM ELEM.		REQUIREMENT	DESCRIPTION OF CHANGE COSTS	es (\$K)	
•	Observations PE 35111N	Provide Equipment .	Procurement of Production Engineering	+22,092K -5K +19,938K -172K +169K +2,162K	
2.	Analysis & Forecasts PE 35111N	Provide Equipment	Satellite Processing Center (SPC) Upgrade Procurement of NODDES/SPADS Procurement of PEPSR/PEPSUE . Procurement of TESS	-350K +2,941K +76K +15K -4,006K	
		Climatology Studies	Contract Studies Typhoon Information Processing System (TIPS)	+74K +550K	
3.	Communications PE 35111N	Provide Equipment.	Procure Consolidated Communications System (CCS) Replacement for Environ- mental/Weather Networks Procure Synthetic Aperture Radar Procure Satellite Display/Receivers	+2,600K +2,279K -200K +521K	

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FEDERAL PLAN FOR METEOROLOGICAL SERVICES AND SUPPORTING RESEARCH

•		TABLE 1. PROGRAM CHANGES, FY 88		Date: NO	NOV 1986
	XX Operational	Supporting Research	AGENCY NAVY		
ser Iew	e/Title of Change Vice and Function Or ongoing line H/PROGRAM ELEM.	Requirement	DESCRIPTION OF CHANGE	COSTS (\$K)
4 .	Dissemination to User PE 35111N	<u>'s</u> Provide Equipment	Procure Satellite Display System Procure Sensors/MET Equipment Procure AN/SMQ-11 Satellite Receiver/ Recorder	+(540K 682K +99K 759K
5.	General Agency Suppor PE 35111N	Environmental Training Personnel Costs Provide Facility	Inflation supplies/aids, etc. E/S increase in officer plus military payraise MILCON	+ 7	731K 200K 190K 140K

MET Equipment Installation, Rework and Overhaul

Provide Equipment